

09/900866

ABSTRACT OF THE DISCLOSURE

5 A liquid discharge recording head cartridge comprises a first plate having liquid supply ports opened for supply liquid; a recording element base plate provided with discharge ports for discharging liquid, a member for forming liquid flow paths to conduct liquid to the discharge ports for discharging liquid, and recording elements for generating energy to be utilized for discharging the liquid from the discharge ports, and fixed to aid first plate for inducing liquid from the liquid supply ports; a recording element unit provided with a wiring board for providing signals for the recording element base plate in accordance with recording images; and a liquid supply unit having liquid supply paths formed therefor to conduct liquid supplied from tanks containing liquid to liquid inlet ports. For this cartridge, the liquid supply unit is provided with a mechanically coupling portion, and the leading face of the mechanically coupling portion is positioned on the face having the liquid inlet ports opened thereto; to the first plate, the liquid supply ports are open each in the position corresponding to the position of the liquid inlet ports; the liquid inlet ports of the liquid supply unit and the liquid supply ports of the first plate are coupled with a joint sealing member being placed between them with holes on the positions corresponding

0900866-071001

to the opening positions of both of the supply unit and supply ports, and a coupling member is fitted into the mechanically coupling portion to enable the first plate to abut against the mechanically coupled portion of the liquid supply unit, and then, the head of the coupling member engages with the screw retaining portion provided for the first plate to couple the first plate and the liquid supply unit closely under pressure; and the wiring board is installed on the face on the side opposite to the abutting face against the liquid supply unit of the first plate, and, further, folded to the side face on the different side, and the screw retaining portion is provided outside the portion having the wiring board installed thereon. With the structure thus arranged, it becomes unnecessary to consider any defects that may be incurred by use of adhesive agent, and the coupling process is made relatively simple for the implementation of highly reliable coupling at lower costs.